

# 吉林十字花科山芥属一新种——洪氏山芥\*

## *Barbarea hongii* (Brassicaceae), a new species from Jilin, China

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**Key words** *Barbarea* R.Br.; *B. hongii* Al-shehbaz et G Yang; New species; China

***Barbarea hongii*** Al-Shehbaz & G. Yang, sp. nov. Fig. 1

Herba annua vel biennis. Caules 35 ~ 60 cm longi, erecti, angulares, glabri. Folia basalia ignota; folia caulina inferiora petiolata, petiolis 2.5 ~ 6 cm longis, laminis 4 ~ 7 cm longis, lyrato-pinnatifidis; lobis lateralibus 1 ~ 3 jugis oblongis vel ovatis, 2 ~ 10 mm × 1 ~ 5 mm, integris; lobis terminalibus 2 ~ 3 cm × ca. 1.5 cm. Folia caulina superiora vel dentata, sessilia, auriculato-amplexicaulia, lobis lateralibus 1-jugis; auriculis anguste oblongis, usque ad 10 mm × 3 mm, sparse ciliatis, integris; lobis lateralibus usque ad 10 mm × 3 mm, glabris, integris; lobis terminalibus usque ad 3 cm × 1 cm, repandis vel obtuso-dentatis. Racemi fructiferi ebracteati, valde elongati. Flores ignoti. Pedicelli fructiferi erecti, appressi, 4 ~ 7 mm longi, tereti vel subquadrangulares, glabri, tenues. Fructus lineares, 1.2 ~ 3 cm longi, 2 ~ 2.5 mm lati, valde compressi et latiseptati, torulosi, erecti; valvis prominente venosis, retusis; stylo crasso, 0.7 ~ 1.3 mm longo, leviter compresso. Semina late ovata vel suborbiculata, 1.6 ~ 2 mm × 1.4 ~ 1.7 mm, uniseriata, valde compressa, alata, alis 0.1 ~ 0.3 mm latis.

Herbs annual or biennial. Stems 35 ~ 60 cm tall, erect, angled, glabrous throughout. Basal leaves not seen; lowermost cauline leaves petiolate; petiole 2.5 ~ 6 cm long, glabrous; leaf blade 4 ~ 7 cm long, lyrate-pinnatifid; lateral lobes 1 ~ 3 on each side, oblong to ovate, 2 ~ 10 mm × 1 ~ 5 mm, entire; terminal lobe oblong to ovate, 2 ~ 3 cm × ca. 1.5 cm. Upper stem leaves usually with 1 lateral lobe on each side, the uppermost unlobed, obtusely toothed, sessile, auriculate-amplexicaul; auricles narrowly oblong, to 10 mm × 3 mm, only sparsely ciliate, entire; lateral lobes oblong, to 10 mm × 3 mm, glabrous, entire; terminal lobe lanceolate, up to 3 cm × 1 cm, repand to obtusely dentate. Fruiting racemes ebracteate, elongated considerably. Flowers not seen. Fruiting pedicels erect, appressed to stem, 4 ~ 7 mm long, terete to subquadrangular, glabrous, slender, much narrower than fruit. Fruit linear, 1.2 ~ 3 cm long, 2 ~ 2.5 mm wide, strongly flattened and latiseptate, torulose, erect; gynophore to 0.5 mm; valves with a prominent midrib and lateral veins, apex retuse; style stout, 0.7 ~ 1.3 mm, slightly compressed. Seeds brown, broadly ovate to suborbicular, 1.6 ~ 2 mm × 1.4 ~ 1.7 mm, uniseriate, 8 ~ 14 per locule, strongly compressed, winged all around; wing 0.1 ~ 0.3 mm wide. Fl. Jul.

**China. Jilin:** Antu County, Mt. Changbai, N slope of the Volcano, Er Dao Bai He Valley near the hot springs, rounded basaltic rock, alt. 1730 m, 1986-07-29, D Y Hong, W. H. Sauer, S. Gerbert, Y Yang 33158 (holotype, PE 1549926).

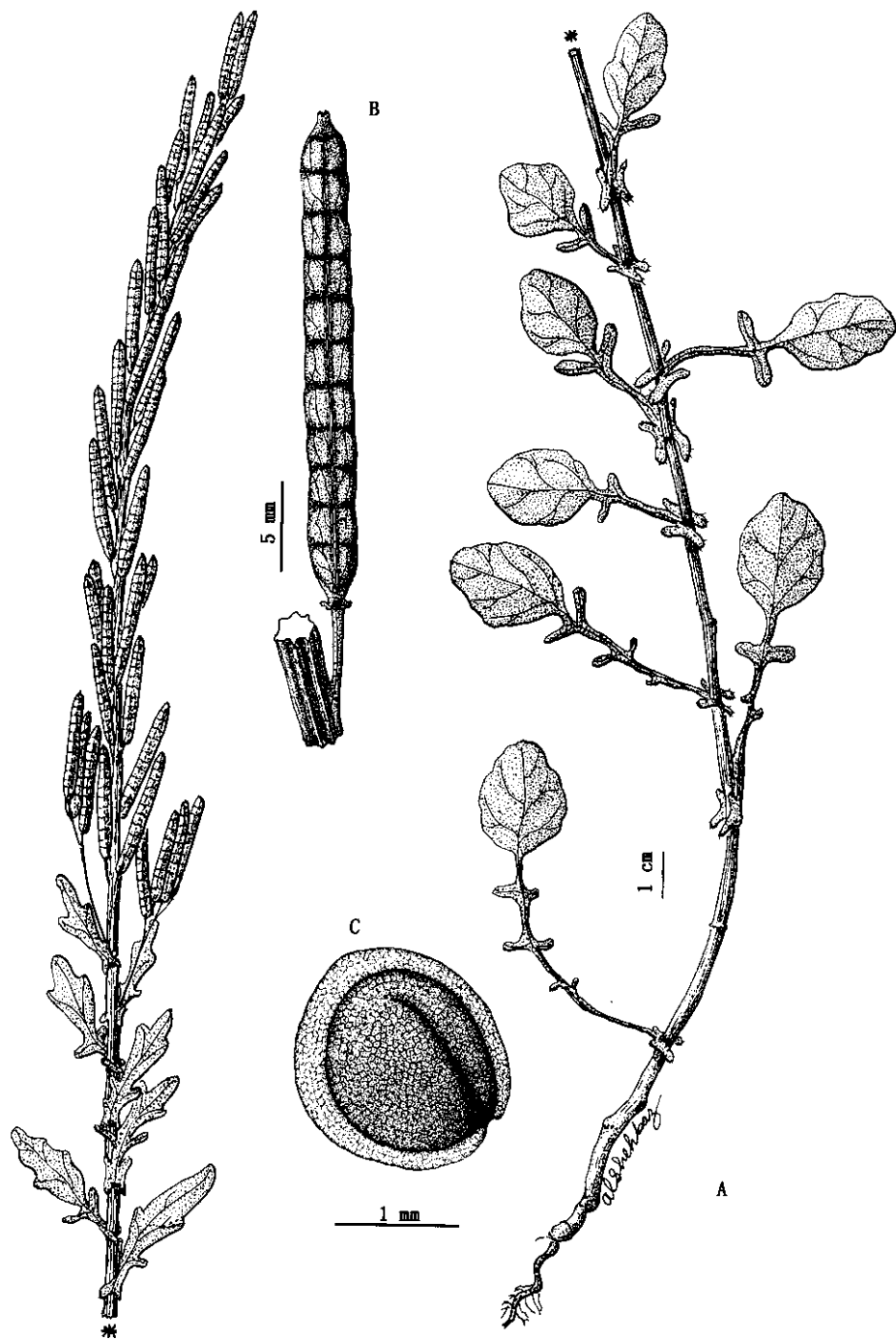


Fig.1 A. Plant; B. Fruit, fruiting pedicel, and portion of rachis; C. Seed. (Drawn by Al-Shehbaz from the holotype)

*Barbarea hongii* Al-Shehbaz & G. Yang, which is named in honor of one of its collectors, Academician Hong De-yuan, is known thus far only from three plants of the type collection. It resembles the Taiwan-endemic *B. taiwaniana* Ohwi in having strongly flattened fruits 2 ~ 2.5 mm wide, retuse valves, and strongly compressed, winged, broadly ovate to suborbicular seeds. This character combination readily separates these two species from all of the remaining ca. 20 species of *Barbarea*. *Barbarea hongii* is easily distinguished from *B. taiwaniana* in being an annual or biennial 35 ~ 60 cm tall and with lyrate-pinnatifid cauline leaves, 1 ~ 3 pairs of lateral lobes, and a terminal leaf lobe ca. 3 cm long and much larger than the lateral lobes. In contrast, *B. taiwaniana* is a perennial (6 ~ )10 ~ 20 cm tall and with pinnatisect cauline leaves, (4 ~ )6 ~ 10( ~ 12) pairs of lateral lobes, and a terminal leaf lobe to 1.5 cm long and about as large as the lateral lobes.

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**关键词** 山芥属;洪氏山芥;新种;中国